

Figure 1

the third than the transfer of the transfer of

201	76 Box Rd Townsville QLD
202	PO Box 92 Geelong VIC
203	39 Main St Box Hill VIC
204	8 Box Ave Devonport TAS
205	Cnr Box and Wolger Rds Townsville QLD
206	76 Box St Townsville NSW
207	231 Box Road Townsville QLD
208	53 3rd Ave, Townsville 4321 QLD
209	35 Third Avenue, Townsville Queensland 4321
210	333 Mt Pleasant Road, Springvale
211	191 Springvale Road, Mt Pleasant
212	123 Sydney Ave, Melbourne VIC
1	

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Figure 2

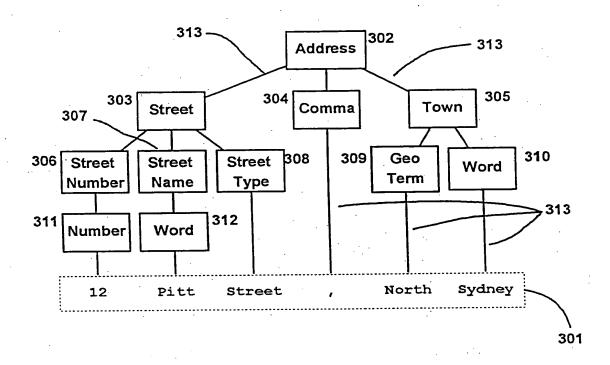
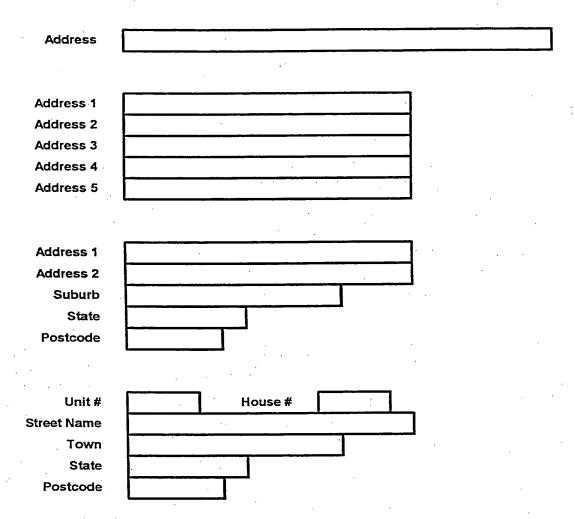


Figure 3

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Figure 4

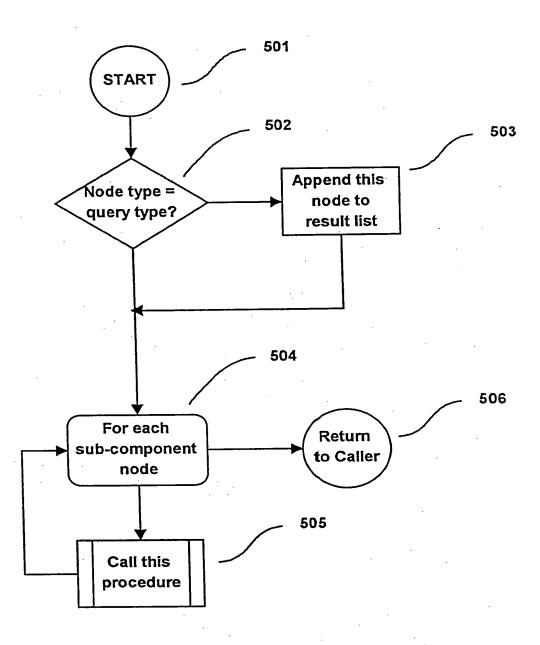


Figure 5

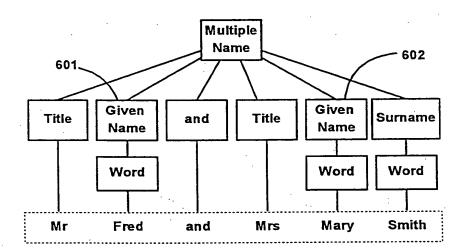


Figure 6

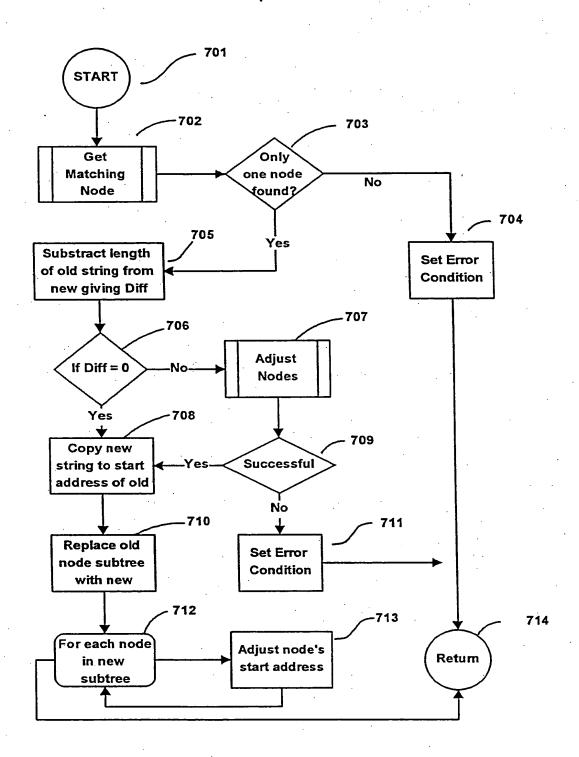
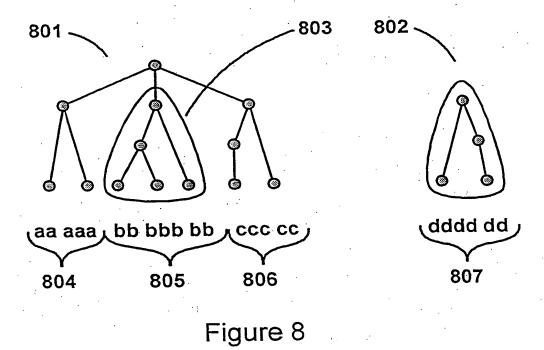


Figure 7



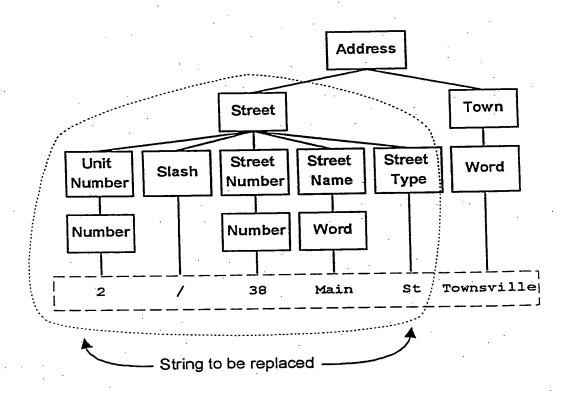


Figure 9

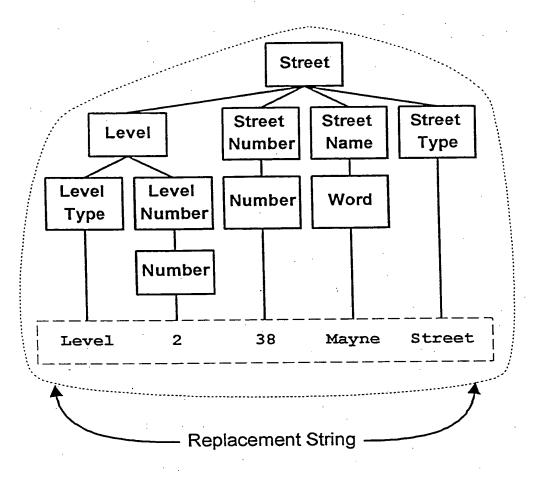


Figure 10

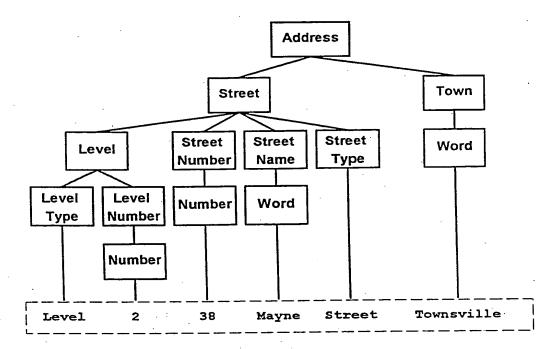
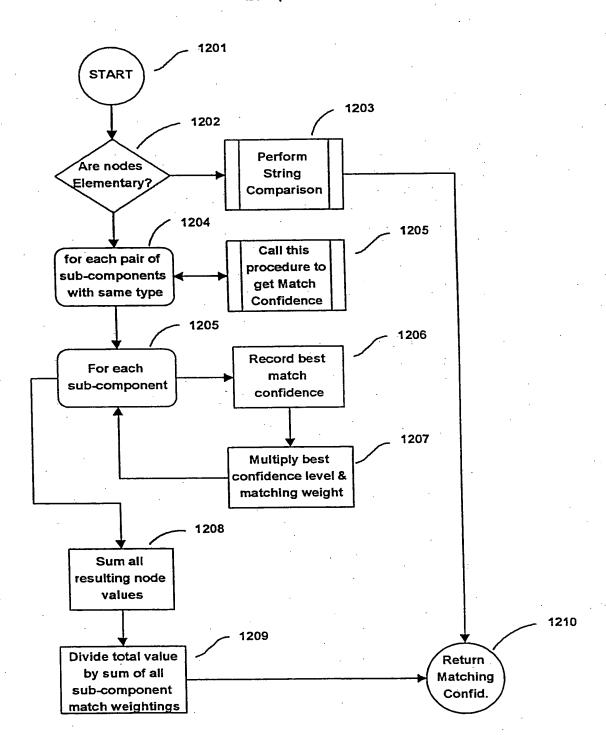


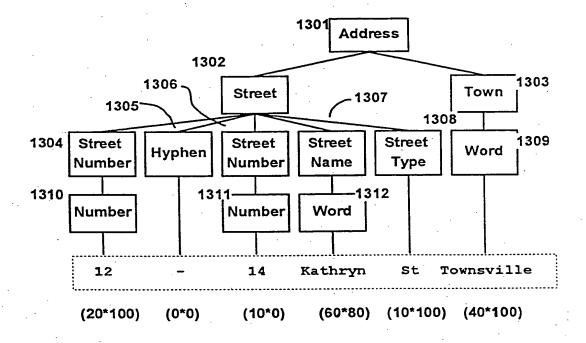
Figure 11

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Figure 12



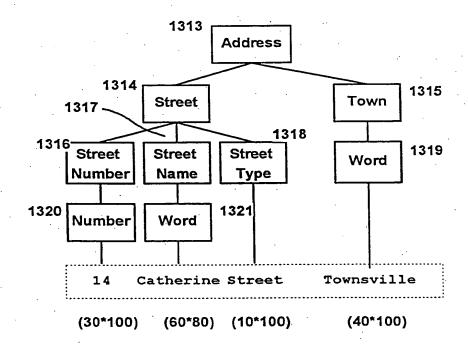
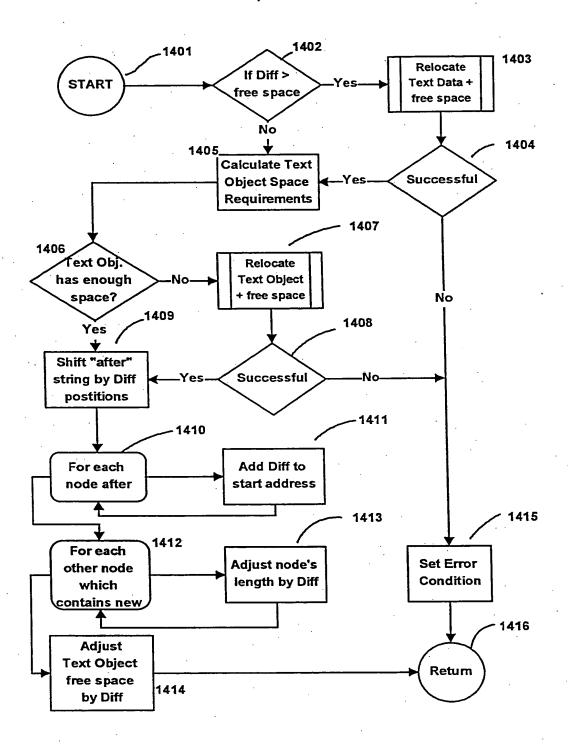


Figure 13



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Figure 14

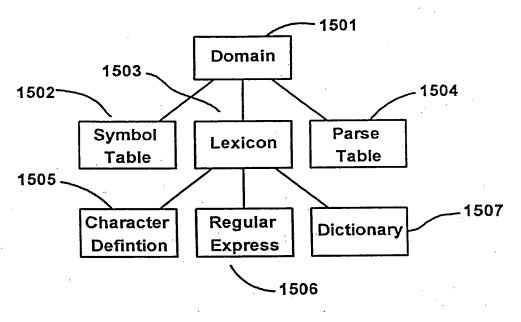


Figure 15

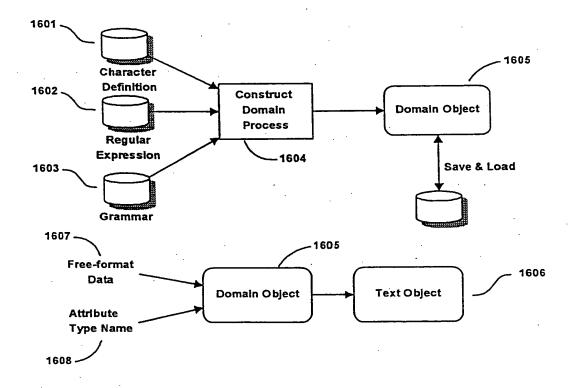


Figure 16

The control of the co

Standard Japanese Katakana Transliteration

a ア	1 イ	uウ	e エ	。才
ka力	ki 牛	kuク	keケ	koコ
satt	si	suス	se 七	S0
ta	tiチ	tu	te	to ト
na	· ni	Run	ne	noノ
ha	hi ヒ	huフ	he^_	ho
ma∀	mi	muA	. me≯	mo 'E
ya 🗡		yuユ		yo∃
га	ri	ru .	re ${\cal V}$	ro
waワ	wi		wer	woヲ
ga	gi	gu	ge	go
za	zi	zu	ze	zo
da	đi	du	de	do
ba	bi	bu	be	bo
pa	, pi	pu	pe	ро
n				

Standard Greek Transliteration

Α	α	а	I	ı	i	P	ρ	r
В	΄ β	V	К	κ	k	Σ	σ	S
Γ	γ	9	٨	λ	l	Т	τ	t
Δ	δ	q	М	μ	m	Y	υ	u
E	ε	е	N	v	n	Φ	ф	f.
z	ζ	z	Ξ	ξ	×	х	χ	ch
Н	η	i	0	0 .	0	Ψ	Ψ	ps
Θ	θ	th	П	π	р	Ω	ώ	0

Figure 17

Sample Regular Expression Definition .

-		Action	alpha	digit	symbol	space	end of line	end of string
0	Error	0	•		•			
. 1	start	1	3	9	13	1	16	18
2	empty	, 4	·					
3	Initial	2 .	6	5	5 .	4 .	5	5
4 ·	Initial space+	3	5	5	5	4	5	5
5	Initial ^space	5	•					
6	Word+	2	6	8	8 .	7	8	8
7	Word+ space	3	8	8	8	7	8	8
8	Word+ *space	7 .				•		
9	0-9	2	12	10	12	11	12	12
10.	0-9+	2	12	, 1 0	12	11	12	12
11	0-9+ space	. 3	. 12	12	12	11	12	12
.12	0-9+ ^space	8				•		
13	sym	2	15	15	15	14	15	15
14	sym space	3	15	15	15	14	15	15
15	sym ^space	10						
16	eol+ space*	3	17	17	17	16	16	18
17	eoi+ ^space	11		,	•			
18	eoi	. 9	0	0	o d	0	0	0

** Action	Action Description
0	Error in Table
1	Bypass leading spaces
2	Append this character to character buffer
3	Append trailing space to character buffer
4	Empty string
5	Create "initial" token; go back 1 char, set state to 1
7	Create "word" token; go back 1 char, set state to 1
8	Create "number" token; go back 1 char; set state to 1
9	Create "end of input" token; go back 1 char; set state to 1
10	Create "symbol" token; go back 1 char; set state to 1
11	Create "end of line" token; go back 1 char; set state to 1

Figure 18

1. 1.

```
Address
 -> StreetAddr, Town Zipcode State
   | PostBox, Town Zipcode State ;
StreetAddr
 -> Street
   | StreetNum Street
   | AptType AptNum StreetNum Street
   | StreetNum Street AptType AptNum ;
Street
 -> StreetName StreetType StreetDir
                                             :-2
   | StreetName StreetType ;
StreetName
  -> word | word word ;
StreetNum -> nbr ;
AptNum -> nbr ;
StreetType
  -> "Ave"
             | "Avenue"
                          ("Ave")
   | "Rd"
             | "Road"
                          ("Rd")
   | "St"
              | "Street"
                          ("St");
StreetDir
  -> Geo ;
Geo
  -> "North" | "N" ("North")
   | "South" | "S" ("South")
   | "East"
              | "E" ("East")
    | "West"
              | "W" ("West") ;
AptType
  -> "Apt" | "Apartment"
    | "Unit"
    | "Suite" | "Ste" ;
 Zipcode
   -> 99999
              1 99999 "-" 9999 ;
 PostBox
  -> PostPref PostBoxNum ;
                                              =-9=
 PostPref
   -> "PO Box" | "Box" ;
 PostBoxNum
   -> nbr | nbr A | A nbr ;
 Town
   -> word | word word
    | Geo word | Geo word word ;
 State
   -> "ALABAMA"
                     ("AL") | "AL"
    | "ALASKA"
                     ("AK") | "AK"
    | "ARI ZONA"
                     ("AZ") | "AZ"
    | "ARKANSAS"
                     ("AR") | "AR"
    | "CALIFORNIA"
                     ("CA") | "CA"
```

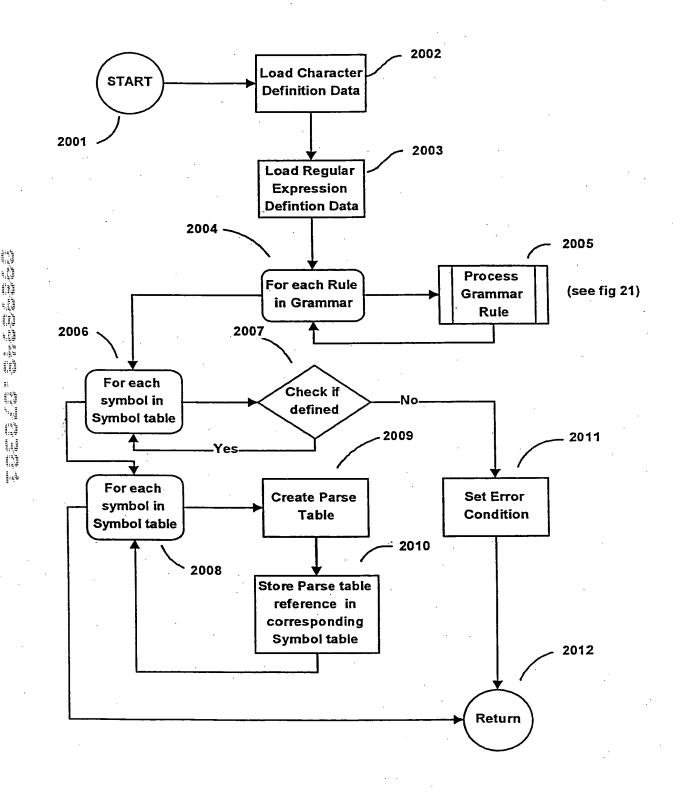
Special Symbols:

->	Consists of
1	Or
;	Rule terminator
(""	Matching ·
)	equivalence
=+9=	Matching
	Significance
	Adjustment
=	Zero Matching
	Significance
:+9	Parsing
	Significance
	Adjustment

Reserved Words:

word	one or more letters
nbr	one or more digits
A	one letter
9	one digit
•	comma or nothing

Figure 19



the state of the s

Figure 20

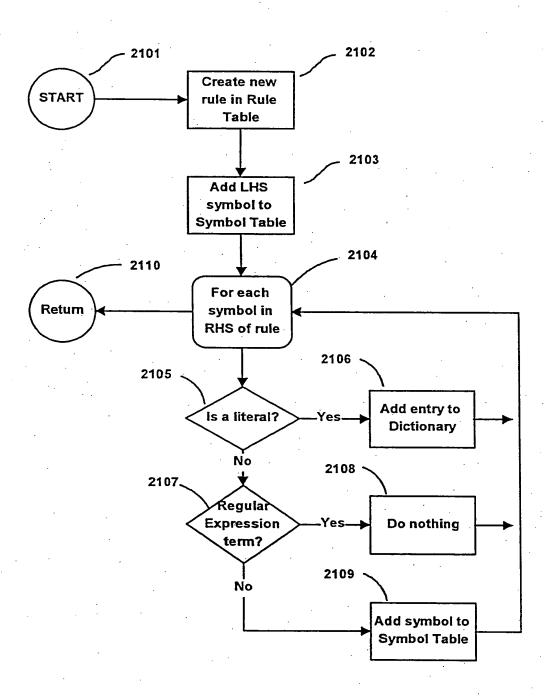


Figure 21

SQL Database Implementation Example

```
CREATE DOMAINOBJECT US ADDRESS ;
ı.
2.
    UPDATE US ADDRESS
       SET LANGUAGE = EXTERNAL 'Path/English.txt',
           GRAMMAR = EXTERNAL 'Path/US Addr.txt';
     CREATE TEXTOBJECT ADDRESS ;
З.
4.
    UPDATE US ADDRESS
       SET DOMAIN = US ADDRESS,
           TYPE = "Address";
5.
     CREATE TABLE PERSONS (
     Name
                      CHAR (20),
       Home Addr
                    ADDRESS ) ;
     INSERT INTO PERSONS ( Name, Home_Addr )
       VALUES (
         "John Smith",
         "123 Cathy Street, Apt 5, Huntsvale, CA, 98765");
7.
     SELECT FROM PERSONS
       WHERE Home Addr = "Unit 5 123 Cathy St, Huntsvale, CA";
8.
     SELECT FROM PERSONS
       WHERE Home Addr.State = "California";
     SELECT FROM PERSONS
 9.
       WHERE Home Addr.Street MATCHES "Kathie St" > 0.80;
```

New Reserved Words:

DOMAINOBJECT, TEXTOBJECT, LANGUAGE, GRAMMAR, TYPE, MATCHES